

Standard precautions, contact precautions and airborne precautions with eye protection (e.g., goggles or a face shield) should be followed during autopsy for someone with COVID-19. Many of the procedures are consistent with existing guidelines for safe work practices in the autopsy setting; see Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories (<https://www.cdc.gov/mmwr/preview/mmwrhtml/su6101a1.htm>).

CDC Interim Guidance for Collection and Submission of Postmortem Specimens from Deceased Persons Under Investigation (PUI) for COVID-19, February 2020: <https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-postmortemspecimens.html>

Remain alert for guidance from professional organizations and the Louisiana State Coroners Association.

ENGINEERING CONTROL AND PPE RECOMMENDATIONS

Engineering Control Recommendations: Autopsies on decedents with known or suspected COVID-19 should be conducted in Airborne Infection Isolation Rooms (AIIRs).

PPE Recommendations: Double surgical gloves interposed with a layer of cut-proof synthetic mesh gloves, fluid resistant or impermeable gown, waterproof apron, goggles or face shield, and NIOSH-certified disposable N-95 respirator or higher. Surgical scrubs, shoe covers, and surgical cap should be used per routine protocols.

COLLECTION OF POSTMORTEM CLINICAL PATHOLOGIC SPECIMENS

Please call the Louisiana Office of Public Health at 800-256-2748 for guidance on the collection of postmortem pathologic specimens.

The following factors should be considered when determining if an autopsy will be performed for a deceased PUI: medicolegal jurisdiction, facility environmental controls, availability of recommended personal protective equipment (PPE), and family and cultural wishes.

If an autopsy is performed, collection of the following postmortem specimens is recommended:

- Postmortem clinical specimens for testing for SARS-CoV-2, the virus that causes COVID-19: ○ Upper respiratory tract swabs: Nasopharyngeal Swab and Oropharyngeal Swab (NP swab and OP swab) ○ Lower respiratory tract swab: Lung swab from each lung
- Separate clinical specimens for testing of other respiratory pathogens and other postmortem testing as indicated
- Formalin-fixed autopsy tissues from lung, upper airway, and other major organs

If an autopsy is NOT performed, collection of the following postmortem specimens is recommended:

- Postmortem clinical specimens for testing for SARS-CoV-2, the virus that causes COVID-19, to include only upper respiratory tract swabs:
- Nasopharyngeal Swab and Oropharyngeal Swab (NP swab and OP swab)
- Separate NP swab and OP swab specimens for testing of other respiratory pathogens

SAFELY PREPARING THE SPECIMENS FOR SHIPMENT

After collecting and properly securing and labeling specimens in primary containers with the appropriate media/solution, they must be transferred from the autopsy suite in a safe manner to laboratory staff who can process them for shipping.

1. Within the autopsy suite, primary containers should be placed into a larger secondary container.
2. If possible, the secondary container should then be placed into a resealable plastic bag that was not in the autopsy suite when the specimens were collected.
3. The resealable plastic bag should then be placed into a biological specimen bag with absorbent material; and then can be transferred outside of the autopsy suite.
 - a. Workers receiving the biological specimen bag outside the autopsy suite or anteroom should wear disposable nitrile gloves.

SUBMISSION OF SPECIMENS TO LOUISIANA DEPARTMENT OF HEALTH PUBLIC HEALTH

Please call the LDH Public Health at 800-256-2748 to coordinate specimen transport.

CLEANING AND WASTE DISPOSAL RECOMMENDATIONS

Follow the general guidelines for cleaning and waste disposal following an autopsy of a decedent with confirmed or suspected COVID-19. The surface persistence of SARS-CoV-2 is uncertain at this time. Other coronaviruses such as those that cause MERS and SARS can persist on nonporous surfaces for 24 hours or more.

Routine cleaning and disinfection procedures (e.g., using cleaners and water to pre-clean surfaces prior to applying an Environmental Protection Agency (EPA)-registered, hospital-grade disinfectant for appropriate contact times as indicated on the product's label) are appropriate for COVID-19 in these settings.

After an autopsy of a decedent with confirmed or suspected COVID-19, follow [CDC recommendations](#) when cleaning the autopsy room (and anteroom, if applicable).

TRANSPORTATION OF HUMAN REMAINS

Follow standard routine procedures when transporting the body after specimens have been collected and the body has been bagged. Disinfect the outside of the bag with an EPA-registered hospital disinfectant applied according to the manufacturer's recommendations. Wear disposable nitrile gloves when handling the body bag.

ADDITIONAL INFORMATION

Additional information and resources for COVID-19:

Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories at <https://www.cdc.gov/mmwr/preview/mmwrhtml/su6101a1.htm>)

CDC Interim Guidance for Collection and Submission of Postmortem Specimens from Deceased Persons Under Investigation (PUI) for COVID-19, February 2020 at <https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-postmortemspecimens.html>